

1.     * A projectile is launched at $30^{\circ}$ going $110 \mathrm{~m} / \mathrm{s}$. Calculate the time in the air and how far away it lands. You may use the diagram if you need to. (Full key on back: don't just copy: learn.)
$\mathrm{Vy}=$

2. An object (say "Jar Jar Binks") is launched at $45^{\circ}$ and $32 \mathrm{~m} / \mathrm{s}$. How high does he go?

3. Two objects are shot from horizontal platforms as shown. Which ball ( A or B ) is in the air for the most time?

4. A. Which ball (C or D) takes the most time to hit the ground?
B. Which ball has the greatest range?

5. Ball A or B above?
A. Has the greatest y-velocity?
B. Will go the highest?

## Due Tues, Sept 27

## 2011 PreAP Two Dimensions 8





